217/782-2113

OPERATING PERMIT

#### PERMITTEE

Sherwin-Williams Company Attention: James C. Jones 11700 South Cottage Grove Chicago, Illinois

Application No.: 88040014

Applicant's Designation: BOILER #1

Subject: Cleaver Brooks Boiler

Date Issued: May 10, 1988

Expiration Date: May 6, 1993

Date Received: April 8, 1988

I.D. No.: 031600FHI

Location: 11700 South Cottage Grove, Chicago

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of 2 boilers as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

Emissions of particulate matter, nitrogen oxides and carbon monoxide shall not exceed 0.20, 4.22 and 0.84 tons/yr, respectively. These limits are based on standard emission factors, firing of natural gas at the maximum firing rate (6.28 million Btu/hr), and the maximum hours of operation indicated in the permit application.

Terry M. Sweitzer, P.E. Managek, Permit Section

Division of Air Pollution Control

TAS:DAA:ds:4837H/30

DAA cc: Region 1

H. Fr.



# STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

#### STANDARD CONDITIONS FOR OPERATING PERMITS

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special permit condition(s).

- 1. The issuance of this permit does not release the permittee from compliance with state and federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or with applicable local laws, ordinances and regulations.
- 2. The Agency has issued this permit based upon the information submitted by the permittee in the permit application. Any misinformation, false statement or mispresentation in the application shall be grounds for revocation under 35 Ill. Adm. Code 201.207.
- 3. a. The permittee shall not authorize, cause, direct or allow any modification, as defined in 35 Ill. Adm. Code 201.102, of equipment, operations or practices which are reflected in the permit application as submitted unless a new application or request for revision of the existing permit is filed with the Agency and unless a new permit or revision of the existing permit(s) is issued for such modification.
  - b. This permit only covers emission sources and control equipment while physically present at the indicated plant location(s). Unless the permit specifically provides for equipment relocation, this permit is void for an item of equipment on the day it is removed from the permitted location(s) or if all equipment is removed, notwithstanding the expiration date specified on the permit.
- 4. The permittee shall allow any duly authorized agent of the Agency, upon the presentation of credentials, at reasonable times:
  - a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
  - to have access to and to copy any records required to be kept under the terms and conditions of this permit,
  - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
  - d. to obtain and remove samples of any discharge or emission of pollutants, and
  - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any activity, discharge or emission authorized by this permit.
- 5. The issuance of this permit:
  - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are located,
  - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the facilities,

## CALCULATION SHEET

Facility Showin-Wil	liums Co	1.D. <u>031 600 FHI</u>	
Anal. Eng. DAA Date	040888	PN 58040014	
Rev. Eng Date		Date Rec. <u>04 08 88</u>	
Remit to operate	2 biles		
No flag. Not sub			<u></u>
	The same and the s	and the second s	
Firing rates: 6.28 4.71	X106 BTU/hc ma	·×	
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MOx = .100(6.28)=	0.628 #/hr max	0.47/#/hrave	
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$\frac{1}{\sqrt{10}} = \frac{2}{\sqrt{11}} = \frac{70}{\sqrt{10}}$	max 0.08 TV max, 1.58 "", 0.32		
			-
(Are hrs 24/7/26)		u l	! 
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NOx = 1.37 CO = 6.28	1,03		
0 0,20	)		
CRANT O	1 6 6 7 70		1,~
	rt = 0,2 78° 10x = 94,22 "	based on emission faci	,
- /	20 5 0.84"	his of operation.	
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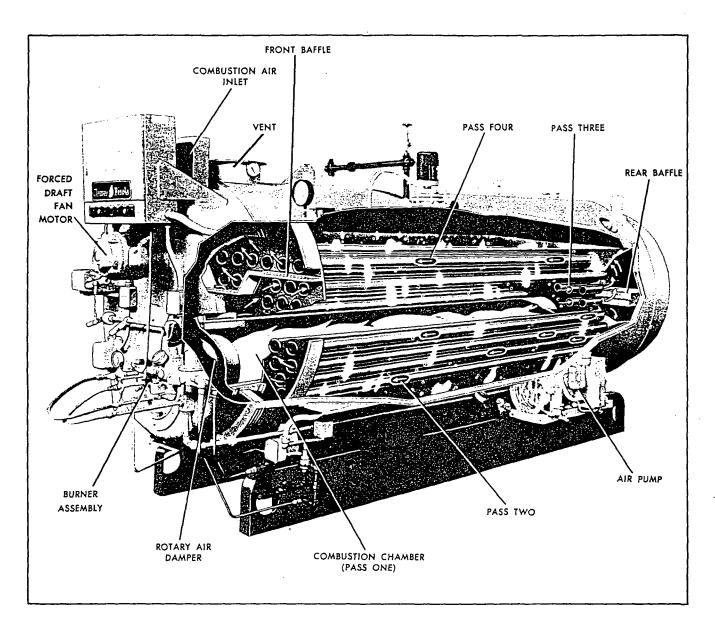


STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 1039 Disclosure of this information is required under that Sectio Failure to do so may prevent this form from being process; and could result in your application being denied. This form has been approved by the Forms Management Center.

	2811			PP:		٠
			<del></del>			
				FOR A	AGENCY USE ONLY	
1	APPLICATION FOR A PERMIT(A)			03	1600 FHI	
			I. D. NO.		10.11	
	CONSTRUCT OPERATE		PERMIT NO.	880	40014	
				1/	0.88	
	E OF EQUIPMENT TO BE	ID Poilor	DATE		-8-88	
CON	STRUCTED OR OPERATED Cleaver Brooks 50 H	BOITEL(B)				
						-
				<del></del>	· <del></del>	
la.	NAME OF OWNER: Sherwin-Williams Company		of operator: :win-Willi	ams Comp	anv	
<u> </u>			ADDRESS OF OPER			
16.	STREET ADDRESS OF OWNER: 101 Prospect Ave. N.W.		00 Cottage		VA -	
	CITY OF OWNER:	l	OF OPERATOR:	- GLOVE A	<del></del>	
10.	Cleveland	Chic				
1,	STATE OF OWNER:   le. ZIP CODE:		OF OPERATOR:		710 0005	
10.	Ohio 44115-10		nois		2e. ZIP CODE: 60628	
L	01110 1 44113-10	//3   1111	11010	<del></del>	00020	
1 2.	NAME OF CORPORATE DIVISION OR PLANT:	l ah empra	ADDRESS OF EMISS	TION FOUNCE.	<del></del>	
3a.	Chicago Emulsion Plant		O S. Cotta		د	
	_					
JC.	CITY OF EMISSION SOURCE: 3d. LOCATED WITHIN Chicago	CITY 3e. TOWNS		COUNTY:	3g. ZIP CODE: 60628	
<u></u>	Chicago LIMITS: YES	LJ NO		00011	00020	
_						
4.	ALL CORRESPONDENCE TO: (TITLE AND/OR NAME OF INDIVIDUAL)		HONE NUMBER FOR A			
<u> </u>	J.C. Jones Engineering Coordinat		<u> </u>	-3151		
6.	ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) OWNER: OPERATOR XEMISSION S	7. YOUR	THRONG BOTTENSEED	IS APPLICATION	i:(c)	
	OWNER:OPERATOR	SOURCE				
					;	
-						
8.	THE UNDERSIGNED HEREBY MAKES APPLICATION FOR A PERMIT AND	CERTIFIES THAT THE	STATEMENTS CONTA	INED HEREIN ARE	TRUE AND CORRECT, AND	
1	FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATIO BY AFFIXING HIS SIGNATURE HERETO HE FURTHER CERTIFIES THAT	N REFERENCED IN TH	IS APPLICATION REI	MAINS TRUE, COR RPPLICATION.	RECT AND CURRENT.	
			/			
	AUTHORIZED SIGNATURE(S):(D)				RECEIVED	
1	nv	nv	Mass	/	3/25/	0 0
1	SIGNATURE DATE	_ BY 5	TGNATURE		15K 0 3 1300 E 237	00
			/ hamaa c	Topog	11 11 0 0 1000	
1	TYPED OR PRINTED NAME OF SIGNER	- ( / <del>T</del>	YPED OR PRINTED N	AME OF SIGNER	A-DAPC-SPFLD.	
			Enginee	ring Coo	rdinator	
}	TITLE OF SIGNER		ITLE OF SIGNER			
(4)	THIS FORM IS TO PROVIDE THE AGENCY WITH GENERAL INFORMATION	N AROUT THE FOULTPM	IENT TO BE CONSTRU	CTED OR OPERATI	FD. THIS FORM MAY	
(4)	ONLY BE USED TO REQUEST ONE TYPE OF PERMIT - CONSTRUCTION	OR OPERATION - AND	NOT BOTH.		1110 1 9141 1911	
(0)	ENTER THE GENERIC NAME OF THE EQUIPMENT TO BE CONSTRUCTED	חם חסבפאדבה דיייב	NAME WILL ADDESS	י הא דשב סבפאוד	שורט אמע פר זכנוורה. -	
(B)	PURSUANT TO THIS APPLICATION. THIS FORM MUST BE ACCOMPANY	ED BY OTHER APPLIC	ABLE FORMS AND IN	FORMATION.	WILLIAM DE TOOREN	
(0)					TOMENT VOLIO	
(C)	PROVIDE A DESIGNATION IN ITEM 7 ABOVE WHICH YOU WOULD LIKE DESIGNATION WILL BE REFERENCED IN CORRESPONDENCE FROM THIS	INC AGENCY RELATIVE T	O THIS APPLICATION	IN. YOUR DESIGN	NATION MUST NOT	
	EXCEED TEN (10) CHARACTERS.					
(D)	THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH PCB REC	SS., CHAPTER 2. PAR	RT 1. RULE 103(a)	(4) OR 103(b)(5	) WHICH STATES:	
1 ` '	"ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED	BY THE OWNER AND C	PERATOR OF THE EM	HISSION SOURCE (	OR ATR POLITICAL	
	CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE				1	
1	IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATIO	N MUST HAVE ON FIL	E WITH THE AGENCY	A CERTIFIED CO	OPY OF A RESOLUTION	
	OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PEOPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.	CANDON STENING THIS	APPLICATION TO C	AUSE OR ALLOW 1	THE CONSTRUCTION OR	

	· · · · · · · · · · · · · · · · · · ·	1-13
. 9.	DOES THIS APPLICATION CONTAIN A PLOT PLAN/MAP:	
	IF A PLOT PLAN/MAP HAS PREVIOUSLY BEEN SUBMITTED, SPECIFY:	
	AGENCY I.D. NUMBER	APPLICATION NUMBER
	IS THE APPROXIMATE SIZE OF APPLICANT'S PREMISES LESS THAN 1 A	CRE?
	YES NO: SPECIFY 16.5 ACRES	
10.	DOES THIS APPLICATION CONTAIN A PROCESS FLOW DIAGRAM(S)  YES NO	THAT ACCURATELY AND CLEARLY REPRESENTS CURRENT PRACTICE.
	M 153 U 140	
<b></b>	AND AND COURSES CONTROL BY THE ARRIVES TON OWNER	
	WAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, OWNED OR CONTRACTED FOR, BY THE APPLICANT PRIOR TO APRIL 14, 1972:	116. HAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, NOT PREVIOUSLY RECEIVED AN OPERATING PERMIT:
	YES X NO	YES NO
	IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT A, THAT:  (a) LISTS OR DESCRIBES THE EQUIPMENT  (b) STATES WHETHER THE EQUIPMENT WAS IN COMPLIANCE WITH THE RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION PRIOR TO APRIL 14, 1972.	IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT B, THAT:  (a) LISTS OR DESCRIBES THE EQUIPMENT  (b) STATES WHETHER THE EQUIPMENT  (i) IS ORIGINAL OR ADDITIONAL EQUIPMENT  (ii) REPLACES EXISTING EQUIPMENT, OR  (iii) MODIFIES EXISTING EQUIPMENT  (c) PROVIDES THE ANTICIPATED OR ACTUAL DATES OF THE COMMENCEMENT OF CONSTRUCTION AND THE START-UP OF THE EQUIPMENT
12.		GRANTED PERMIT(S), HAS FORM APC-210, "DATA AND INFORMATION
	INCORPORATION BY REFERENCE" BEEN COMPLETED.	
	YES NO	
	13. DOES THE STARTUP OF AN EMISSION SOURCE COVERED BY THIS APPLICABLE STANDARDS:	S APPLICATION PRODUCE AIR CONTAMINANT EMISSION IN EXCESS OF
	YES K NO	•
	IF "YES," HAS FORM APC-203, "OPERATION DURING STARTUP"	BEEN COMPLETED FOR THIS SOURCE:
	YES NO	
	14. DOES THIS APPLICATION REQUEST PERMISSION TO OPERATE AN	I EMISSION SOURCE DURING MALFUNCTIONS OR BREAKDOWNS:
\ \ \ \	TES NO  IF "YES," HAS FORM APC-204, "OPERATION DURING MALFUNG	TION AND BREAKDOWN" BEEN COMPLETED FOR THIS SOURCE:
ō	YES NO	
PERMIT ONLY	15. IS AN EMISSION SOURCE COVERED BY THIS APPLICATION SUBJ	ECT TO A FUTURE COMPLIANCE DATE:
) PEI	TYES NO	USGT COURT STICK SCUSCUS II DESCU COURT STICK COURT
ERATING	TYES T NO	JECT COMPLETION SCHEDULE, " BEEN COMPLETED FOR THIS SOURCE:
ERAI	16. DOES THE FACILITY COVERED BY THIS APPLICATION REQUIRE A	N EPISODE ACTION PLAN (REEER TO GUIDELINES FOR EPISODE
ြ ဝိ	ACTION PLANS):	TO EL 1300E ACTION LEAN (KELEK TO GOTDEETINES FOR EFISODE
ğ.	YES NO	
APPLICATION FOR		FILED WITH THE ILLINOIS POLLUTION CONTROL BOARD ON OR BEFORE
ΑŢ	JUNE 13, 1972:  TYES K NO	
님		DATE OF BOARD ORDER
₹	· · · · · · · · · · · · · · · · · · ·	
	GOVERNING THE CONTROL OF AIR POLLUTION" EFFECTIVE PR	FICIENT TO ACHIEVE COMPLIANCE WITH THE "RULES AND REGULATIONS IOR TO APRIL 14, 1972, COMMENCED PRIOR TO APRIL 14, 1972:
	ELVES EL NO	
	YES NO  IF "YES," EXPLAIN IN DETAIL, AND IDENTIFY EXPLANATION A	S EXHIBIT D
<b></b>		
'8.	LIST AND IDENTIFY ALL FORMS, EXHIBITS, AND OTHER INFORMATION OF EACH ITEM (ATTACH ADDITIONAL SHEETS IF NECESSA	
1		
	•	
1		
		TOTAL NUMBER OF PAGES



### THE FOUR PASS CONSTRUCTION OF A TYPICAL CB GENERATOR

Combustion air enters through the air inlet. The forced draft fan forces air through the rotary air damper and the diffuser into the combustion chamber. The main fire tube or combustion chamber, constitutes pass one. Baffling allows gases to pass to the front of the generator only through pass two; here a baffle allows gases to pass to the rear of the generator only through pass three. From the rear the gases are forced through pass four to the vent.



# STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

Statutes, 1975, Chapter IIIV, Section 1009. Disclosure of this information is required under that section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

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*DATA AND INFORMATION	
FUEL COMBUSTION EMISSION SOURCE	

\*THIS INFORMATION FORM IS TO BE COMPLETED FOR A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED FOR THE PRIMARY PURPOSE OF PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN EMISSION SOURCE THAT DOES NOT FIT THIS DESCRIPTION, INCLUDING AN EMISSION SOURCE OR AN INCINERATOR.

Sherwin-Williams Company	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): Chicago Emulsion Plant
3, STREET ADDRESS OF EMISSION SOURCE: 11700 S. Cottage Grove Ave.	4. CITY OF EMISSION SOURCE: Chicago, IL 60628.

GENERAL	INFORMATION .	·
5. FLOW DIAGRAM DESIGNATION(S) OF EMISSION SOURCE:		
6. MANUFACTURER:	7. MODEL NUMBER:	8. SERIAL NUMBER:
Cleaver Brooks	CB 200-150	L-83993
9. AVERAGE OPERATING TIME OF EMISSION SOURCE:  48 HRS/DAY 7 DAYS/WK 26 WKS/YR	10. MAXIMUM OPERATING TIME 48 HRS/DAY 7	OF EMISSION SOURCE: DAYS/WK 40 WKS/YR

#### INSTRUCTIONS

- 1. COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION.
- 2. COMPLETE THE APPROPRIATE FUEL SECTION OR SECTIONS. IF MORE THAN ONE FUEL IS FIRED OR IF THE CAPABILITY EXISTS TO FIRE MORE THAN ONE FUEL, THE ACTUAL USAGE OF FUELS AND THE RELATIONSHIP BETWEEN FUELS, SIMULTANEOUS FIRING, ALTERNATE FIRING, RESERVE FUEL, ETC., MUST BE MADE CLEAR.
- EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.
- 4. FIRING RATES AND CERTAIN OTHER ITEMS REQUIRE BOTH AVERAGE AND MAXIMUM VALUES.
- 5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

#### DEFINITIONS

AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:

A VERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD.

AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD. DIVIDED B

AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE OPERATING TIME.

AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.

MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FROM THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:

MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATION FOR ANY TWELVE MONTH PERIOD.

MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION.

MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

· · · · · · · · · · · · · · · · · · ·		<del></del>		2-B
	GAS F	IRING	•	
*11. ORIGIN OF GAS: DISTILLATE FUEL  PIPELINE OIL GASIFICATIO	OTHER LIQUID FU	JEL SOLID FUEL GASIFICATION	BYPRODUCT: SPECIFY SOURCE	
12. ARE YOU ON AN INTERRUPTABLE GAS SUPPLIED IF "YES", SPECIFY ALTERNATE FUEL:	LY: X YES  Oil	МО		
13. ANNUAL CONSUMPTION: N/A SCF	• 14. HEAT CONTENT: 1050	BTU/SCF	• 15. SULFUR CONTENT: N/A	%8Y WT.
16. AVERAGE FIRING RATE: 4,710,000	BTU/HR	17. MAXIMUM FIRING 6,280,000		BTU/HR
THE GAS FIRED IS NATURAL GAS, THESE ITEMS	NEED NOT BE COMPLETE	ED.		
	Oil Fil	RING		
18. TYPE OF OIL:  GRADE NUMBER: 1 2 4	□ 5 □ 6 OI	HER: SPECIFY		
19. ANNUAL CONSUMPTION: Not Used	GALLONS	20. HEAT CONTENT:		☐ BTU/LB ☐ BTU/GAL
21. SULFUR CONTENT:	%8Y WT	22. ASH CONTENT:		%BY WT
23. DIRECTION OF FIRING:  TANGEN  TANGEN	NTIAL C	THER: SPECIFY		
24. AVERAGE FIRING RATE:	BTU/HR	25. MAXIMUM FIRING	RATE:	BTU/HR
	SOLID FUE	L FIRING		
26. TYPE OF SOLID FUEL:	OUS COAL AN	THRACITE COAL	OTHER: SPECIFY	
27. ANNUAL CONSUMPTION:	TONS	28. HEAT CONTENT A		BTU/LB
29. MOISTURE CONTENT AS FIRED: %BY WT	30. ASH CONTENT A	S FIRED:	31. SULFUR CONTENT A	
	WET BOTTOM OR HORIZONTALLY OPPOSE	DRY BOTTOM,	FY	<del> </del>
SPREADER STOKER: % REINJECTION	OTHER: S	PECIFY		
33. AVERAGE FIRING RATE:	BTU/HR	34. MAXIMUM FIRING	RATE:	BTU/H
SUBMIT COPIES OF THOSE PORTIONS OF COAL COURATION OF THE CONTRACT. IF THE ACTUAL I	FUEL FIRED IS A BLEND O	F SOLID FUELS, SUBMIT AP	PROPRIATE PORTIONS OF ALL	, FUEL CONTRACTS

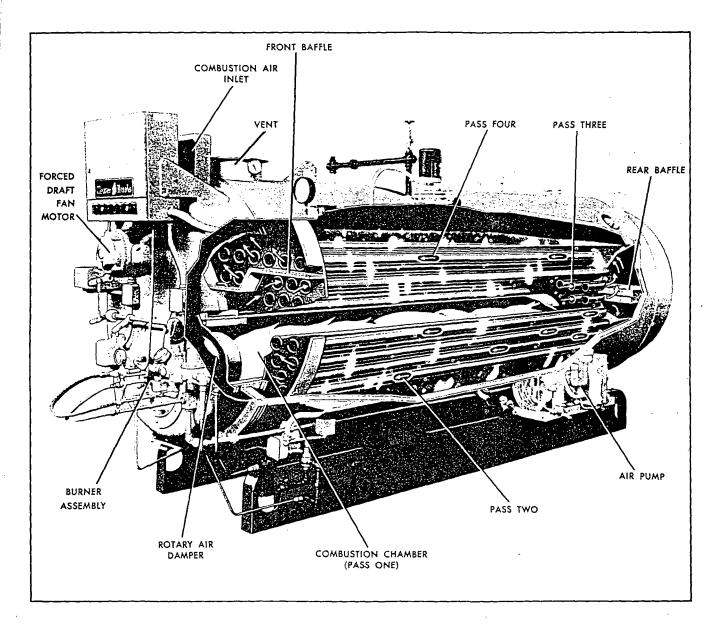
		<del>.</del>				
				*EMISSION INFORMATIO	NC	
35. NUMBER OF	F IDENTICAL SC	OURCES (DESCRIBE	AS REQUIRE	D):		
<del></del>				AVERAGE OPERATION		
CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTAMINANT SOURCE					METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE	
PARTICULATE MATTER	3 60.	GR/SCF	b.	□ 18/10 <sup>6</sup> BTU □ 18/HR	c.	
CARBON MONOXIDE	37a.	PPM (VOL)	b.	□ B/10 <sup>6</sup> BTU □ LB/HR	с.	
NITROGEN OXIDES	38a.	PPM (VOL)	ь.	□ LB/10 <sup>6</sup> BTU □ LB/HR	c.	
ORGANIC MATERIAL	39a.	PPM (VOL)	ь.	□ LB/10 <sup>6</sup> BTU □ LB/HR	с.	
SULFUR DIOXIDE	40a.	PPM (VOL)	ь.	□ LB/10 <sup>6</sup> BTU □ LB/HR	с,	
				MAXIMUM OPERATION	1	
CONTAMINANT		ITRATION <u>OR</u> EMI	SSION RATE			METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	41a,	GR/SCF	ь.	□ LB/10 <sup>6</sup> BTU   □ LB/HR	:.	
CARBON MONOXIDE	42a.	PPM (VOL)	ь.	□ LB/10 <sup>6</sup> BTU □ LB/HR	c.	
NITROGEN CXIDES	43a.	PPM (VOL)	ь.	□ LB/10 <sup>6</sup> BTU □ LB/HR	с.	
ORGANIC MATERIAL	44a.	PPM (VOL)	ь.	□ LB/10 <sup>6</sup> BTU □ LB/HR	с.	
SULFUR DIOXIDE	450.	PPM (VOL)	ь.	□ LB/10 <sup>6</sup> BTU □ LB/HR	c.	

<sup>\*</sup>IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT, OR IF NATURAL GAS IS THE FUEL FIRED, ITEMS 36 THROUGH 47 NEED NOT BE COMPLETED.

	•	*EXHAUST POINT	İNFORMATION			
46.	FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POL	NT:				
47.	DESCRIPTION OF EXHAUST POINT (LOCATION IN RE nearest building 300ft NE	LATION TO BUILD of stack	DINGS, DIRECTION, HOODING, ETC.):			
48. EXIT HEIGHT ABOVE GRADE: 57ft			50. EXIT DIAMETER: 2ft			
49. GREATEST HEIGHT OF NEARBY BUILDINGS: None FT		51. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY: 85ft	FT			
	AVERAGE OPERATION		MAXIMUM OPERATION			
52.	EXIT GAS TEMPERATURE: 155	°F	54. EXIT GAS TEMPERATURE: 215	o <sub>F</sub>		
53.	GAS FLOW RATE THROUGH EACH EXIT: 835 *	ACFM	55. GAS FLOW RATE THROUGH EACH EXIT: 1255 * A	CFM		

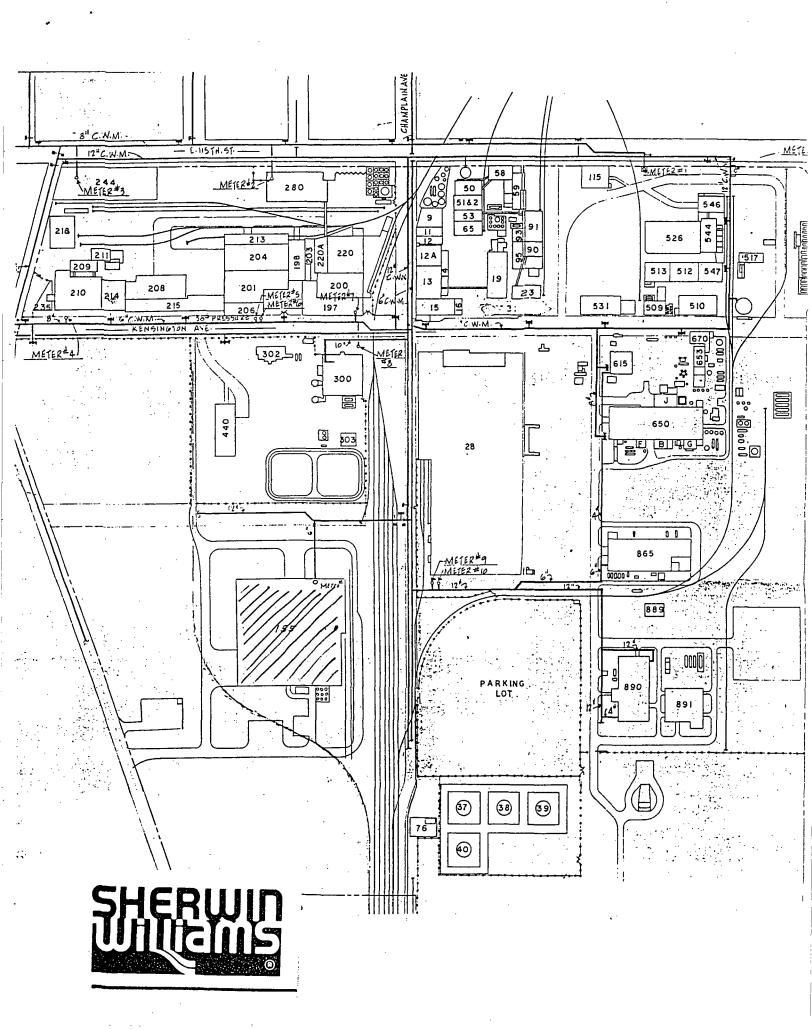
<sup>\*\*</sup>IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT THIS SECTION SHOULD NOT BE COMPLETED.

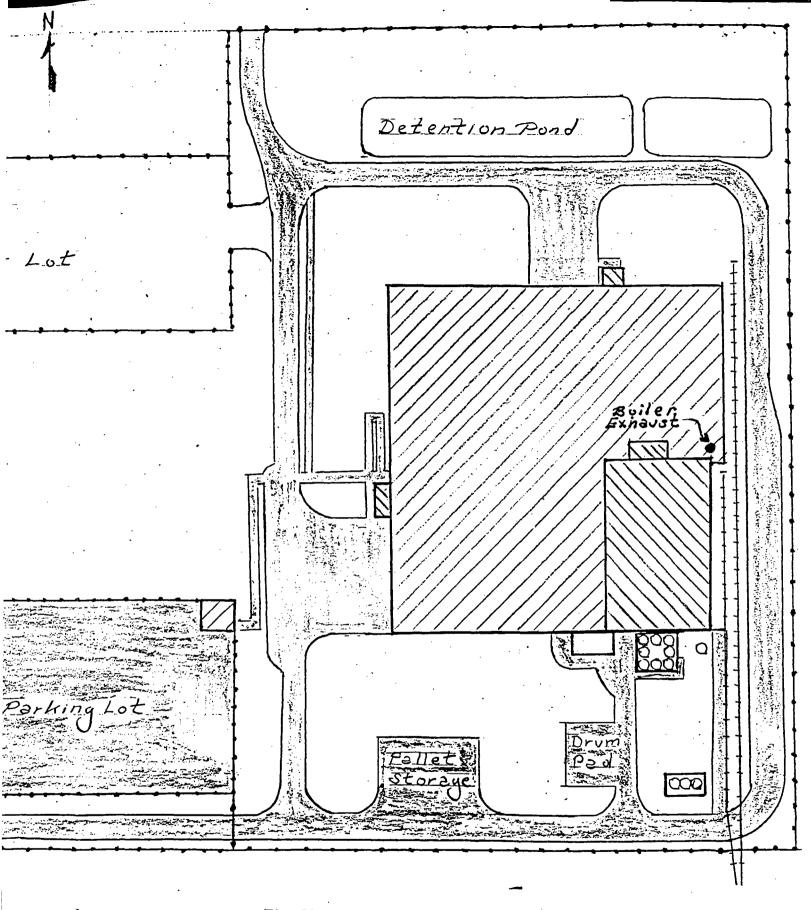
<sup>\*</sup> Note: two boilers with 1255 scfm each vent through a common stack



THE FOUR PASS CONSTRUCTION OF A TYPICAL CB GENERATOR

Combustion air enters through the air inlet. The forced draft fan forces air through the rotary air damper and the diffuser into the combustion chamber. The main fire tube or combustion chamber, constitutes pass one. Baffling allows gases to pass to the front of the generator only through pass two; here a baffle allows gases to pass to the rear of the generator only through pass three. From the rear the gases are forced through pass four to the vent.





The Sherwin-Williams Company Emulsion Plant 11700 Cottage Grove Chicago, Illinois 60628